

# **DEVICES AND METHODS FOR TISSUE SEVERING AND REMOVAL**

## **ABSTRACT OF THE DISCLOSURE**

5 The present invention relates to devices and methods that enhance the accuracy of  
lesion excision, through severing, capturing and removal of a lesion within soft tissue.  
Furthermore, the present invention relates to devices and methods for the excision of  
breast tissue based on the internal anatomy of the breast gland. A tissue severing device  
generally comprises a guide having at least one lumen and a cutting tool contained within  
the lumen. The cutting tool is capable of extending from the lumen and forming an  
10 adjustable cutting loop. The cutting loop may be widened or narrowed and the angle  
between the loop extension axis and the guide axis may be varied. Optional tissue  
marker and tissue collector may additionally be provided. A method for excising a mass  
of tissue from a patient is also provided. The device and method are particularly useful  
for excising a lesion from a human breast, e.g., through the excision and removal of a part  
15 of a breast lobe, an entire breast lobe or a breast lobe plus surrounding adjacent tissue.